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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/602,054	10/602,054 06/24/2003		Dae-Ho Choo	61920219D1	1023
75	90	03/11/2005		EXAMINER	
McGuire Woo	ds LLP			RUDE, TI	MOTHY L
Suite 1800 1750 Tysons Boulevard				ART UNIT	PAPER NUMBER
McLean, VA 22102				2883	

DATE MAILED: 03/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/602,054	CHOO ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Timothy L. Rude	2883				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	66(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONE	ely filed will be considered timely. the mailing date of this communication. (35 U.S.C. § 133).				
Status							
1)[🛛	1) Responsive to communication(s) filed on 03 December 2004.						
2a)⊠	This action is FINAL . 2b) ☐ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)□ 6)⊠ 7)□	4) ☐ Claim(s) 1-32 and 56 is/are pending in the application. 4a) Of the above claim(s) 21-32 is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-20 and 56 is/are rejected. 7) ☐ Claim(s) is/are objected to.						
Applicati	ion Papers						
9)[The specification is objected to by the Examine	r					
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
	e of References Cited (PTO-892)	4) Interview Summary					
3) 🔲 Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te atent Application (PTO-152)				

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DETAILED ACTION

Drawings

1. The drawings are objected to because there are unknown characters illustrated in the left area of Figure 9B. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance. Please note that Applicant claims to have amended Figure 9B (bottom of page 3 of Remarks filed 03 December 2004), however, examiner found no amended drawing in the record.

Election/Restrictions

2. Please note that Applicant states [remarks filed 20 May 2004, top of pages 3 and 5] that <u>none</u> of the inventions defined in claims 1-32 and 56 are independent and <u>distinct</u> from each other; therefore, if one invention defined in claims 1-32 is unpatentable over the prior art, Applicant's admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention(s). Please note that base claim 1 contains limitations drawn to non-elected Inventions I, II, III, and X that are considered to be <u>not</u> patentably distinct per Applicant's admission in Paper No. 20040520.

Claim Objections

3. Claim 1 is objected to because of the following informalities: Claim 1 is presently drawn to a non-elected invention and is thereby subject to being withdrawn from consideration. Appropriate correction is required.

Please note that it is reasonable to expect Applicant will amend base claim 1 to read on the elected invention by adding recitations drawn to an in-line conveying unit (MPEP 706.07(a)). Accordingly, exclusively those limitations drawn to elected invention IX need be examined. Examiner is unable to anticipate any other amendments.

Claim Rejections - 35 USC § 103

The following is a quotation of β 5 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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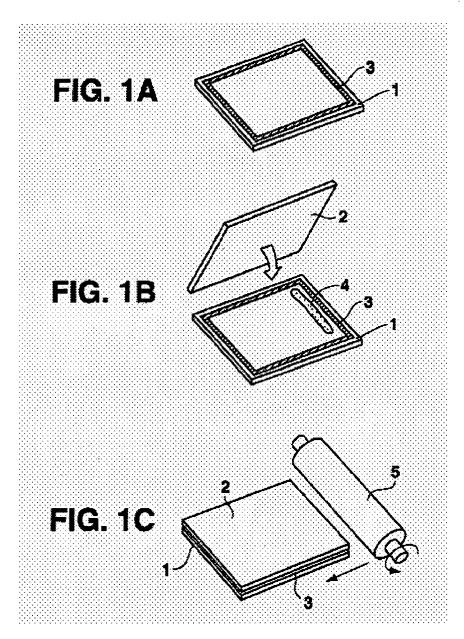
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4. Claims 1-20 and 56 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kawasumi et al (Kawasumi) USPAT 5,978,065 in view of Adachi, Japanese patent application publication JP 56114928 A.

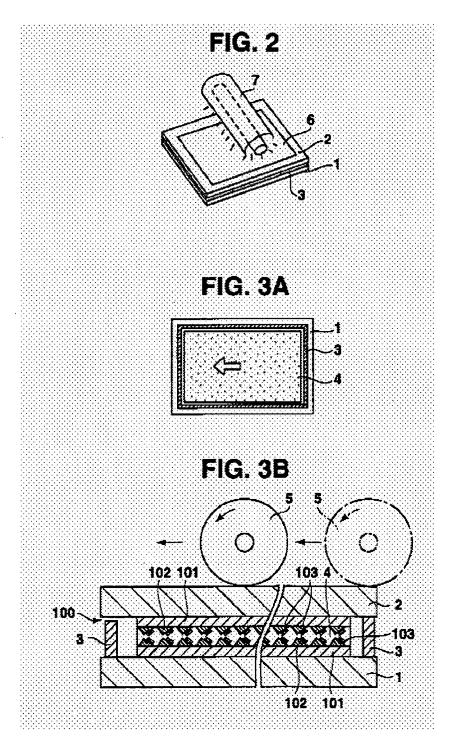
As to claim 1, Kawasumi discloses (Figures 1A-3B) apparatus and a method for manufacturing liquid crystal displays (entire patent, background of the invention, and especially col. 5, line 13 through col. 7, line 14), comprising: applying sealant on one of two substrates of a mother glass, the mother glass having at least one liquid crystal cell (col. 5, lines 14-37) [inherently requires Applicant's sealant applying unit, even if it is manual], a substrate-attaching unit, 5 and 7, conjoining substrates in a vacuum (background, suitable though more costly method – affords better degasification of liquid crystal material). Please note numerous references teach these steps/apparatus.

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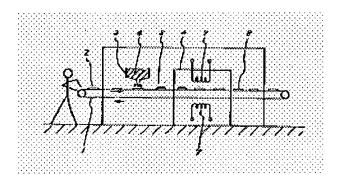


Kawasumi does not explicitly disclose the use of an in-line conveying unit.

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Adachi teaches the use of a belt conveyor to provide a cleaner environment for the operators.



Adachi is evidence that ordinary workers in the art of liquid crystals would find the reason, suggestion, or motivation to add the use of a belt conveyor to provide a cleaner environment for the operators.

Therefore, it would have been obvious to one having ordinary skill in the art of liquid crystals at the time the invention was made to modify the LCD system of Kawasumi with the belt conveyor of Adachi to provide a cleaner environment for the operators.

As to claims 2-20 and 56, Kawasumi in view of Adachi as combined above discloses the apparatus of claim 1, above. The added limitations of claims 2-20 and 56 are drawn to inventions of an in-line system that are not patentably distinct per Applicant's admission in Paper No. 20040520 [remarks filed 20 May 2004, top of pages 3 and 5]. Therefore claims 2-10 and 56 are rejected on the bases that they are not patentably distinct from rejected base claim 1.

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5. Claims 1-20 and 56 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kawasumi et al (Kawasumi) USPAT 5,978,065 in view of Ogawa USPAT 6,680,759 B2.

As to claim 1, Kawasumi discloses (Figures 1A-3B) apparatus and a method for manufacturing liquid crystal displays (entire patent, background of the invention, and especially col. 5, line 13 through col. 7, line 14), comprising: applying sealant on one of two substrates of a mother glass, the mother glass having at least one liquid crystal cell (col. 5, lines 14-37) [inherently requires Applicant's sealant applying unit, even if it is manual], a substrate-attaching unit, 5 and 7, conjoining substrates in a vacuum [background, suitable though more costly method – affords better degasification of liquid crystal material].

Kawasumi does not explicitly disclose the use of an in-line conveying unit.

Ogawa teaches (background of the invention, col. 1, lines 34-44, and in the description of the preferred embodiments, col. 8, lines 46-52) the use of a conveyer type inline manufacturing system as a mainstream manufacturing apparatus to meet the demand for mass production of LCD display panels.

Ogawa is evidence that ordinary workers in the art of liquid crystals would find the reason, suggestion, or motivation to add the use of a conveyer type inline manufacturing system as a mainstream manufacturing apparatus to meet the demand for mass production of LCD display panels.

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Therefore, it would have been obvious to one having ordinary skill in the art of liquid crystals at the time the invention was made to modify the LCD system of Kawasumi with the a conveyer type inline manufacturing system of Ogawa as a mainstream manufacturing apparatus to meet the demand for mass production of LCD display panels.

As to claims 2-20 and 56, Kawasumi in view of Ogawa as combined above discloses the apparatus of claim 1, above. The added limitations of claims 2-20 and 56 are drawn to inventions of an in-line system that are not patentably distinct per Applicant's admission in Paper No. 20040520 [remarks filed 20 May 2004, top of pages 3 and 5]. Therefore claims 2-10 and 56 are rejected on the bases that they are not patentably distinct from rejected base claim 1.

Numerous example references cited but not applied are relevant to the instant Application. It is respectfully pointed out that examiner was unable to find any allowable subject matter in the instant Application. Examiner considers all claims obvious in view of well known and well documented methods of manufacture of liquid crystal displays in view of Ogawa, Adachi, and/or the automotive assembly line.

Response to Arguments

Applicant's arguments filed 03 December 2004 have been fully considered but they are not persuasive.

Applicant's only arguments are:

- 1. Claim 1 is not drawn to a non-elected invention.
- 2. Rejection of claim 1 will no longer be valid subsequent Applicant's appeal.

Examiner's responses to Applicant's only arguments are:

- 1. It is respectfully pointed out that originally presented and presently pending base claims 21 and 24 are drawn to non-elected inventions that do not contain all the elements Applicant argues to be "essential". Examiner considers originally presented claims 21 and 24 to be proof that Applicant's originally filed application was drawn to a plurality of unrelated inventions per restriction of 15 December 2003.
- 2. It is respectfully pointed out that examiner was informed Applicant's appeal is denied. Rejections of claim 1 are maintained.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy L. Rude whose telephone number is (571) 272-2301. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on (571) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Timothy L Rude Examiner

Art Unit 2883

tlr

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